

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

G-STAR PTE.LTD.
6 RAFFLES QUAY #14-06
Singapore

is authorized to provide the product mentioned below with the mark as illustrated:

Description of product (details see Annex 2):

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules



Valid from: 2023-09-28

Valid until: 2028-09-27

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	IEC / EN 61215-1:2016; IEC / EN 61215-1-1:2016; IEC 61215-2:2016 / EN 61215-2:2017 + AC:2017 + AC:2018; IEC 61730-1:2016 / EN IEC 61730-1:2018 + AC:2018; IEC 61730-2:2016 / EN IEC 61730-2:2018 + AC:2018.
Registered No.:	44 780 23 406749 - 336
Manufacturer:	see Annex 1
Test Report No.:	492012692.001
File No.:	PVP07006/23P-01



Essen, 2023-09-28



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Please also pay attention to the information stated overleaf.

Manufacturer:

Manufacturer: **Ocean Energy Company Limited**
998/106-109, 998/111 MOO.9, Bang Pla Subdistrict, Bang Phli District,
Samut Prakan10540, Thailand

Factory inspection report no.: 862010811.001

Remark:

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.



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Description of product(s):

Module types:	Single glass PV Modules with half-cut 6" Half cut Solar Cells: 144 cells: GSP6F72M(H)xxx (xxx=425 to 465, in step of 5) 144 cells: GSP6F72M(H)xxxBW (xxx=425 to 465, in step of 5) 144 cells: GSP6F72M(H)xxxBB (xxx=425 to 465, in step of 5) 120 cells: GSP6F60M(H)xxx (xxx=355 to 385, in step of 5) 120 cells: GSP6F60M(H)xxxBW (xxx=355 to 385, in step of 5) 120 cells: GSP6F60M(H)xxxBB (xxx=355 to 385, in step of 5)
Maximum system voltage:	1500V
Fuse rating:	20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	Single glass PV Modules with half-cut 6" Half cut Solar Cells: 144 cells: GSP6G72M(H)xxxBT (xxx=425 to 465, in step of 5) 144 cells: GSP6G72M(H)xxxWT (xxx=425 to 465, in step of 5) 120 cells: GSP6G60M(H)xxxBT (xxx=355 to 385, in step of 5) 120 cells: GSP6G60M(H)xxxWT (xxx=355 to 385, in step of 5)
Maximum system voltage:	1500V
Fuse rating:	25A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)



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Module types:

Single glass PV Modules with half-cut 7" Half cut Solar Cells:

156 cells: GSP7F78M(H)xxx (xxx=570 to 605, in step of 5)

156 cells: GSP7F78M(H)xxxBW (xxx=570 to 605, in step of 5)

156 cells: GSP7F78M(H)xxxBB (xxx=570 to 605, in step of 5)

144 cells: GSP7F72M(H)xxx (xxx=525 to 555, in step of 5)

144 cells: GSP7F72M(H)xxxBW (xxx=525 to 555, in step of 5)

144 cells: GSP7F72M(H)xxxBB (xxx=525 to 555, in step of 5)

132 cells: GSP7F66M(H)xxx (xxx=485 to 505, in step of 5)

132 cells: GSP7F66M(H)xxxBW (xxx=485 to 505, in step of 5)

132 cells: GSP7F66M(H)xxxBB (xxx=485 to 505, in step of 5)

120 cells: GSP7F60M(H)xxx (xxx=440 to 455, in step of 5)

120 cells: GSP7F60M(H)xxxBW (xxx=440 to 455, in step of 5)

120 cells: GSP7F60M(H)xxxBB (xxx=440 to 455, in step of 5)

108 cells: GSP7F54M(H)xxx (xxx=395 to 415, in step of 5)

108 cells: GSP7F54M(H)xxxBW (xxx=395 to 415, in step of 5)

108 cells: GSP7F54M(H)xxxBB (xxx=395 to 415, in step of 5)

Maximum system voltage:	1500V
Fuse rating:	25A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)



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Module types:

Single glass PV Modules with half-cut 7" Half cut Solar Cells:

156 cells: GSP7G78M(H)xxxBT (xxx=570 to 605, in step of 5)
156 cells: GSP7G78M(H)xxxWT (xxx=570 to 605, in step of 5)
144 cells: GSP7G72M(H)xxxBT (xxx=525 to 555, in step of 5)
144 cells: GSP7G72M(H)xxxWT (xxx=525 to 555, in step of 5)
132 cells: GSP7G66M(H)xxxBT (xxx=485 to 505, in step of 5)
132 cells: GSP7G66M(H)xxxWT (xxx=485 to 505, in step of 5)
120 cells: GSP7G60M(H)xxxBT (xxx=440 to 455, in step of 5)
120 cells: GSP7G60M(H)xxxWT (xxx=440 to 455, in step of 5)
108 cells: GSP7G54M(H)xxxBT (xxx=395 to 415, in step of 5)
108 cells: GSP7G54M(H)xxxWT (xxx=395 to 415, in step of 5)

Maximum system voltage:	1500V
Fuse rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



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